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(21)Application number :	2000-058272	(71) Applicant :	NITTETSU MINING CO LTD
(22)Date of filing :	03.03.2000	(72)Inventor :	TANABE KATSUYUKI MITSUHASHI KOHEI

(54) SILICA-CALCIUM CARBONATE COMPOSITE PARTICLE AND METHOD FOR PRODUCING THE COMPOSITE PARTICLE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide silica-calcium carbonate composite particles which have the characteristics of both synthetic silica and calcium carbonate without deteriorating the characteristics, and to provide a method for producing the silica- calcium carbonate composite particles.

SOLUTION: This method for producing the silica-calcium carbonate composite particles, characterized by comprising adding synthetic silica such as colloidal silica until to reach a carbonization degree of 95% after the start of the carbonization in a carbonization reaction process, namely a process for forming the calcium carbonate, typically a process for stirring a calcium hydroxide slurry and simultaneously introducing a mixture gas of carbon dioxide with air to the slurry to carry out the carbonization reaction, continuously introducing the mixture gas to continue the carbonization reaction, and finally finishing the carbonization reaction, when the slurry reaches pH 7.